## COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (currently amended) A resin/graphite laminate comprising multiple sheets of resin impregnated flexible graphite pressure cured at an elevated temperature, wherein a resin content of at least one of said flexible graphite sheet comprises a sufficient amount that said laminate is dense and cohesive but said resin content comprises less than 30% by weight and a pressure of from 1000 psi to 5000 psi.
  - 2. (original) The laminate of claim 1 wherein the resin is an epoxy.
- 3. (original) The laminate of claim 1 wherein the sheets of resin impregnated graphite are glued together with a phenolic-based adhesive prior to being pressure cured at an elevated temperature.
- 4. (currently amended) The laminate of claim 1 wherein the multiple sheets are pressure cured at a temperature of from 90°C to 200°C and at a pressure of from 1000 psi to 5000 psi.
- 5. (original) The laminate of claim 1 wherein the density of the cured laminate is greater than about 1.85 g/cm<sup>3</sup>.
- 6. (currently amended) A resin/graphite laminate comprising layers of resin impregnated flexible graphite sheets together with layers of a non-graphite material, wherein the laminate is pressure cured at an elevated temperature, wherein a resin content of at least one of said-flexible graphite sheet comprises a

sufficient amount that said laminate is dence and cohesive but said resin content comprises less than 30% by weight and a pressure of from 1000 psi to 5000 psi.

- 7. (original) The laminate of claim 6 wherein the resin is epoxy.
- 8. (original) The laminate of claim 6 wherein the non-graphite material is selected from the group consisting of copper, aluminum and plastics.
- The laminate of claim 6 wherein the laminate is 9. (currently amended) pressure cured at a temperature of below about 200°C and at a pressure of below about 5000 psi.
- An electronic thermal management device 10. (currently amended) comprising a lamellar structure comprising sheets of resin impregnated flexible graphite pressure cured at an elevated temperature, wherein a resin content of at least one of said flexible graphite sheet comprises a sufficient amount that said laminate is dense and cohesive but said resin content comprises less than 30% by weight and a pressure of from 1000 psi to 5000 psi.
- The device of claim 10 wherein the lamellar 11. (currently amended) structure is pressure cured at a temperature of from 90°C to 200°C and at a pressure of from 1000 to 5000 psi.
- 12. (original) The device of claim 10, wherein the device exhibits a thermal conductivity which is anisotropic in nature and is greater than 100 W/mC in at least one plane.
- The device of claim 12 wherein the anisotropic thermal 13. (original) conductivity varies by a factor of at least 15 as between a plane with a higher thermal conductivity and a plane with lower thermal conductivity.

- 14. (original) The device of claim 10 wherein the pressure cured lamellar structure has a density greater than about 1.85 g/cm<sup>3</sup>.
- 15. (original) The electronic thermal management device of claim 10 wherein the sheets of flexible graphite have a resin content of at least about 3% by weight.

## 16. (canceled)

- 17. (currently amended) An anisotropic electronic thermal management device having a thermal conductivity of greater than about 300 W/mC in an in plane direction and a thermal conductivity of less than about 10 W/mC in an out of plane direction and comprising resin impregnated sheets of flexible, wherein a resin content of at least one of said-flexible graphite sheet comprises a sufficient amount that said laminate is dense and cohesive but said resin content comprises less than 30% by weight cured at a pressure of from 1000 psi to 5000 psi.
- 18. (original) The electronic thermal management device of claim 17 wherein the resin is epoxy.
- 19. (original) The electronic thermal management device of claim 17 wherein the resin impregnated sheets form a lamellar structure having a density of at least 1.85 g/cm<sup>3</sup>.
- 20. (original) The electronic thermal management device of claim 17 wherein the resin impregnated sheets of flexible graphite have been cured at an elevated temperature and pressure to form a lamellar structure.

- 21. (previously presented) The resin/graphite laminate of claim 1 wherein said resin content comprises no more than 20% by weight.
- 22. (previously presented) The resin/graphite laminate of claim 1 wherein said resin content comprises no more than 25% by weight.
- 23. (new) The resin/graphite laminate of claim 1 wherein the sheets of flexible graphite have a resin content of from about 5% to about 35% by weight.
- 24. (new) A resin/graphite laminate comprising multiple sheets of resin impregnated flexible graphite pressure cured at an elevated temperature, wherein a resin content of at least one of said flexible graphite sheet comprises a sufficient amount that said laminate is dense and cohesive but said resin content comprises less than 30% by weight and a pressure of at least about 1000 psi.
  - 25. (new) The laminate of claim 24 wherein the resin is an epoxy.
- 26. (new) The laminate of claim 24 wherein the sheets of resin impregnated graphite are glued together with a phenolic-based adhesive prior to being pressure cured at an elevated temperature.

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- 27. (new) The laminate of claim 24 wherein the multiple sheets are pressure cured at a temperature of at least about 90°C.
- 28. (new) The laminate of claim 24 wherein the density of the cured laminate is greater than about 1.85 g/cm<sup>3</sup>.